# Financial Condition Analysis Training November 2014 William C. Rivenbark

#### **Workshop outcomes**

- 1. Understand the purpose and design of model
- 2. Calculate and interpret financial indicators for the general funds
- 3. Calculate and interpret financial indicators for an enterprise fund
- 4. Communicate financial condition of a local government

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#### **Purpose of model**

- To provide local officials with a systematic, comprehensive, and manageable approach to analyze financial condition within the context of trend and benchmark data
- To provide local officials with a systematic, comprehensive, and manageable approach to communicate financial condition to elected officials

#### **Design of model**

- 1. Provides trend and benchmark data for the general fund
  - Measures financial resources on the modified accrual basis of accounting
  - Analyzes three dimensions of resource flow and three dimensions of resource stock

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#### **Design of model**

- 1. Provides trend and benchmark data for governmental activities
  - Measures economic resources on the accrual basis of accounting
  - Analyzes four dimensions of resource flow and four dimensions of resource stock
- Does not include business-type activities because enterprise funds already use accrual basis of accounting

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#### Design of model

- 1. Provides trend and benchmark data for water & sewer fund and electric fund
  - Measures economic resources on the accrual basis of accounting
  - Analyzes four dimensions of resource flow and four dimensions of resource stock
- All local governments have a general fund and governmental activities — only selected local governments have a water & sewer fund and/or an electric fund

#### Design of model

- 1. Selecting benchmark peers
  - Similar services
  - Population
  - Geography
  - Tax base
  - Bond rating
  - Other criteria

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#### Financial condition of general fund

Resource Flow (operating statement)				
Financial Dimension	Financial Indicator			
Service obligation	Operations ratio			
Dependency	Intergovernmental ratio			
Financing obligation	Debt service ratio			

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#### **Operations ratio**

- Used to analyze the financial dimension of service obligation, which determine whether or not annual revenues were sufficient to pay for annual operations
- Total revenues are divided by total expenditures (plus transfers to debt service fund and less proceeds from capital leases and installment purchases)

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Operations ratio	
<u>81,265,468</u> = 1.01	
80,186,525	
Benchmark ■1.0 or higher	
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Intergovernmental ratio	
<ul> <li>Used to analyze the financial dimension of</li> </ul>	
dependency, which determines the extent to which a government is reliant on other	
governments for resources  Intergovernmental revenue (unrestricted and	
restricted) is divided by total revenue	
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Intergovernmental ratio	
(0400004 + 4000404)	
(8169081 + 1998194) 81,265,468 = 13 percent	
Benchmarks	
■Trend analysis ■Selected peers	
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#### **Debt service ratio**

- Used to analyze the financial dimension of financing obligation, providing feedback on service flexibility with the amount of expenditures committed to annual debt service
- Debt service (principle & interest and transfers to debt service fund) is divided by total expenditures (plus transfers to debt service fund and less proceeds from capital leases and installment purchases)

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**Debt service ratio** 

(5,070,455 + 3,833,802) 80,186,525

= 11 percent

Benchmarks

- ■Selected peers
- ■Internal policy

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#### Financial condition of general fund

Resource Stock (balance sheet)				
Financial Dimension	Financial Indicator			
Liquidity	Quick ratio			
Solvency	Fund balance as percentage of expenditures			
Leverage	Debt as a percentage of assessed value			

#### **Quick ratio**

- Used to analyze the financial dimension of liquidity, which is a government's ability to address its short-term obligations
- Divide cash & investments by current liabilities (not including deferred revenue)

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#### **Quick ratio**

27,895,989 2,505,027

= 11.14

Benchmarks

- ■Trend analysis
- ■Selected peers

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### Fund balance as percentage of expenditures

- Used to analyze the financial dimension of solvency, which represents a government's ability to address long-term obligations
- Available fund balance is divided by total expenditures (less proceeds from capital leases and installment purchases) plus transfers out

### Fund balance as percentage of expenditures

<del>27,895,989 – 2,505,027</del> 80,186,525 + 719,278 = 31 percent

Benchmarks

- ■Internal policy
- ■Population average

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#### Debt as percentage of assessed value

- Used to analyze the financial dimension of leverage, which represents the extent to which a government relies on tax-supported debt
- Tax-supported, long-term debt is divided by assessed value

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#### Debt as percentage of assessed value

98,292,929 9,006,821,103 = 1.09 percent

Benchmarks

- ■Internal policy
- ■State law is 8 percent

## Financial condition of water & sewer fund (enterprise fund)

Resource Flow (operating statement)				
Financial Dimension	Financial Indicator			
Interperiod equity	Total margin ratio			
Financial performance	Percent change in net assets			
Self-sufficiency	Charge to expense ratio			
Financing obligation	Debt service ratio			

#### **Total margin ratio**

- Used to analyze the financial dimension of interperiod equity, which addresses whether or not a local government lived within its financial means
- Total resource inflow is divided by total resource outflow

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#### **Total margin ratio**

 $\frac{7029012}{5,807,820} = 1.21$ 

Benchmark

■1.0 or higher

#### Percent change in net assets

- Used to analyze the financial dimension of financial performance, which provides the magnitude of a government's financial position improved or deteriorated as a result of resource flow
- Change in nets assets is divided by net assets, beginning

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#### Percent change in net assets

1221,192 52,035,937 = 2.35 percent

Benchmark •0 percent or higher

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#### Charge to expense ratio

- Used to track the financial dimension of selfsufficiency, which addresses the extent to which service charges covered total expenses
- Service charges are divided by total expenses

#### Charge to expense ratio

 $\frac{6972688}{5,807,820} = 1.20$ 

Benchmarks

- ■1.0 or higher
- ■Trend analysis
- ■Policy decision

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#### **Debt service ratio**

- Used to track the financial dimension of financing obligation, providing feedback on service flexibility with the amount of expenses committed to annual debt service
- Debt service (principle and interest payments) divided by total expenses plus principle

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#### **Debt service ratio**

2074357 7,130,117 = .29

Benchmarks

- ■Trend analysis
- ■Selected peers
- ■Policy decision

# Financial condition of water & sewer fund (enterprise fund) Resource Stock (balance sheet) Financial Dimension Financial Indicator Liquidity Quick ratio Solvency Net assets ratio Leverage Debt to assets ratio Capital Capital assets condition ratio

#### **Quick ratio**

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- Used to track the financial dimension of liquidity, which provides feedback on a government's ability to address short-term obligations
- Cash & investments are divided by current liabilities (not including deferred revenues)

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#### **Quick ratio**

<u>20,180,763</u> 1,585,561

= 12.7

Benchmarks

- ■2.0 or higher
- ■Trend analysis

#### Net assets ratio

- Used to track the financial dimension of solvency, which provides feedback on a government's ability to address long-term obligations
- Unrestricted net assets are divided by total liabilities

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#### Net assets ratio

21,150,117 21,557,901

= .97

Benchmarks

- ■Trend analysis
- ■Selected peers

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#### Debt to assets ratio

- Used to analyze the financial dimension of leverage, which is the extent to which total assets are financed with long-term debt
- Long-term debt is divided by total assets

# 20251,158 74,815,030 = .27 Benchmarks ■Trend analysis ■Selected peers

#### **Capital assets condition ratio**

Debt to assets ratio

- Used to analyze the financial dimension of capital, representing the remaining useful life of capital assets assigned to governmental activities
- Accumulated depreciation is divided by assets being depreciation and then subtracted from 1

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#### Capital assets condition ratio

 $1 - \frac{13141608}{42,117,462} = .68$ 

Benchmarks

- ■Trend analysis
- Selected peers



# To help elected officials grasp financial condition you have to first teach Financial Condition 101

- Key differences in governmental accounting
- Financial position vs. financial condition
- Key parts of financial condition model
- How peers were selected

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# To make it stick, you have to tell a story.

- Structure and order your story.
- The critical few issues rather than many.
- Policy implications and choices.

